

DP-X4m

Professional LED Video Controller



Description

The LED video controller is a professional-grade device designed for LED display systems, featuring powerful video signal input and processing capabilities. It supports high-definition digital input signals up to 1920×1080 resolution, accommodates multiple types of HD digital interfaces, and allows flexible switching between multiple signal sources. It also supports free scaling and cropping of video sources. The device supports OSD menu control via infrared remote and includes USB playback functionality, allowing images and videos to be played directly from a U-DISK via the USB interface. Equipped with four Gigabit Ethernet output ports, a single unit can support LED displays with a maximum width of 3840 pixels or a maximum height of 2000 pixels. In addition, it offers a range of practical and versatile features, providing flexible screen control and high-quality image display, making it an ideal solution for small-sized LED display applications.

Features

- Supports up to 1920×1080@60Hz high-definition input resolution
- Features multiple inputs including 2×HDMI 1.4, DVI, VGA, CVBS, and USB playback
- Enables seamless switching between multiple signal sources
- Allows flexible video scaling, cropping, and image positioning
- Delivers up to 2.6 million pixels loading capacity
- Supports display width up to 3840 pixels or height up to 2000 pixels
- Equipped with 4 Gigabit Ethernet outputs with redundancy support
- Provides independent audio input/output and HDMI/USB audio decoding
- Offers adjustment of contrast, brightness, saturation, hue, and sharpness
- Supports precise brightness and color temperature adjustment
- Maintains high grayscale performance even at low brightness
- Supports storage and recall of up to 16 scenes
- Enables plug-and-play USB playback of images and videos
- Features OSD menu operation and infrared remote control

- Supports USB and RS232 control interfaces
- Complies with HDCP 1.4 digital content protection
- Supports advanced seam correction and calibration data management
- Enables professional color gamut adjustment (requires compatible receiving card)

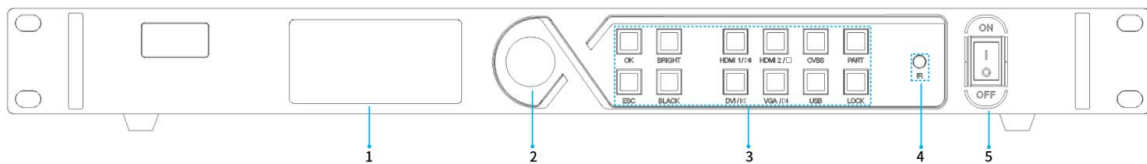
Specifications

Model	DP-X4m
Product Dimensions	482.6mm (19.0") × 44.0mm (1.7") × 292.0mm (11.5")
Package Dimensions	523.0mm (20.6") × 95.0mm (3.7") × 340.0mm (13.4")
Net Weight	3.13kg (6.90lbs)
Gross Weight	4.16kg (9.17lbs)
Power Supply	AC100-240V, 50-60Hz
Power Consumption	10W
Operating Temperature	-20°C~65°C (-4°F~149°F)
Operating Humidity	0-80% RH, Non-Condensing
Storage Temperature	-30°C~80°C (-22°F~176°F)
Storage Humidity	0-90% RH, Non-Condensing

Signal Format

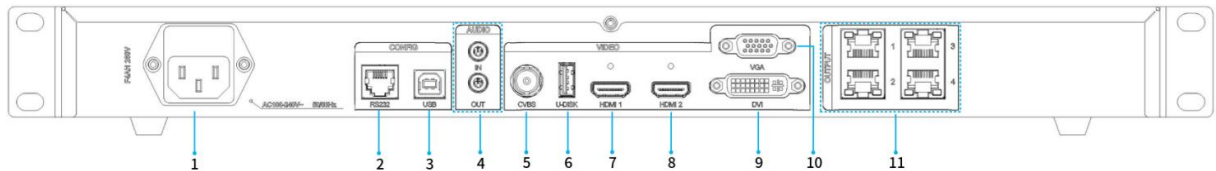
Input Interface	Color Space	Sampling Format	Bit Depth	Max. Resolution	Frame Rate (Hz)
DVI	RGB	4:4:4	8bit	1920×1080@60Hz	23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 100, 120
	YCbCr	4:2:2	8bit		23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 100, 120
HDMI 1.4	YCbCr	4:4:4	8bit	1920×1080@60Hz	23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 100, 120
	RGB	4:4:4	8bit		23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 100, 120

Front / Rear Panel



No.	Name	Description
1	LCD Display Screen	Display the operation menu and system information, resolution 160×128
2	Knob	<ul style="list-style-type: none"> • Press the knob to enter a submenu or confirm a selection. • Rotate the knob to select a menu item or adjust a parameter.
3	Function Keys	<ul style="list-style-type: none"> • OK: Confirm Button • Bright: Adjust brightness • ESC: Exit the current operation • Black: Display black screen on output • HDMI 1 / ►HDMI 2 / ■DVI 1 / ◀VGA▶: Press to switch directly to the corresponding signal. During USB playback, these buttons can be used for Play/Pause, Stop, Previous, and Next track operations.

		<ul style="list-style-type: none"> • CVBS: Press to switch directly to the corresponding signal • PART: Crop function button • USB: Press the USB button to enter USB playback mode; press again to return to the control panel interface • LOCK: Lock front panel buttons
4	IR	Infrared Receiver
5	On/Off Mode	Power Switch



Power Interface		
1	AC100-240V 50/ 60Hz	Connect to AC power supply; built-in power protection components.
Control Interface		
2	RS232	RJ11(6P6C) interface*, can be connected to central control system
3	USB	USB 2.0 Type-B interface, connect to a computer for parameter configuration.
Audio Interface		
4	AUDIO IN	3.5mm jack, receives audio signals from a computer or other devices.
	AUDIO OUT	3.5mm jack, outputs audio signals to active speakers or other devices. (supports HDMI audio decoding output)
Input Interface		
5	CVBS	PAL/NTSC Standard Video Input
6	U-DISK	<ul style="list-style-type: none"> • USB port, plays videos/images stored in a USB drive • Supported formats: NTFS, FAT32, FAT16 • Image formats: JPEG, PNG, WEBP, BMP • Video codecs: MPEG1/2, MPEG4, Sorenson H.263, H.263, H.264 (AVC1), H.265 (HEVC), RV30/40, DivX, Xvid • Audio codecs: MPEG1/2 Layer I, MPEG1/2 Layer II, MPEG1/2 Layer III, AAC-LC, VORBIS, PCM, FLAC • Maximum video resolution: 1920×1080@60Hz
7	HDMI 1	<ul style="list-style-type: none"> • 1× HDMI 1.4 input • Maximum resolution: 1920×1080@60Hz • Supports EDID 1.4 • Supports HDCP 1.4 • Supports audio input
8	HDMI 2	<ul style="list-style-type: none"> • 1× HDMI 1.4 input • Maximum resolution: 1920×1080@60Hz • Supports EDID 1.4 • Supports HDCP 1.4 • Supports audio input
9	DVI	<ul style="list-style-type: none"> • Maximum resolution: 1920×1080@60Hz • Supports EDID 1.4 • Supports HDCP 1.4
10	VGA	Maximum resolution: 1920×1080@60Hz

Output Interface		
11	Port 1~4	<ul style="list-style-type: none"> • 4× 1G Ethernet ports - Load capacity per port: 655,360 pixels - Total load capacity: 2.6 million pixels; max width 3840 or max height 2000 pixels • Recommended cable length (CAT5e or higher): ≤100m • Supports redundancy backup
	Port 1~2	<ul style="list-style-type: none"> • 2× 1G Ethernet ports - Load capacity per port: 655,360 pixels - Total load capacity: 1.3 million pixels; max width 3840 or max height 2000 pixels • Communication Distance: It is recommended that CAT5e cable length does not exceed 100 m. • Supports redundancy backup

*This diagram takes the 4-port LED video controller as an example. Product images are for reference only; actual products shall prevail.